

FIG. 1

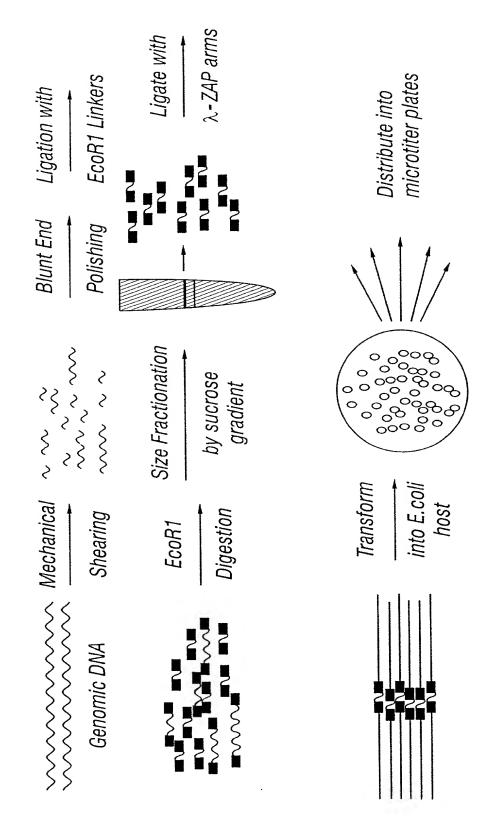


FIG. 2

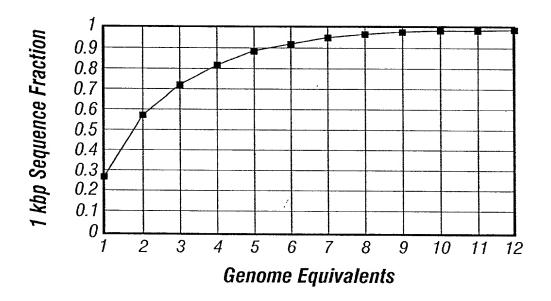


FIG. 3

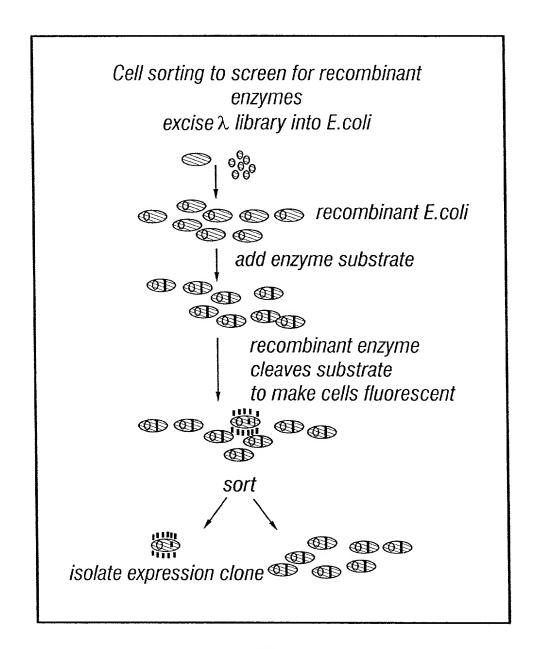


FIG. 4

β -Gal clone with different substrates

- cells were stained with FDG,
 CMFDG or
 C12FDG,
 incubated for 30 min. at 70°C,
 spotted onto a slide and exposed to UV light.
- bright spot indicates staining of cells



FDG

C12FDG

CMFDG

FIG. 5

6/16

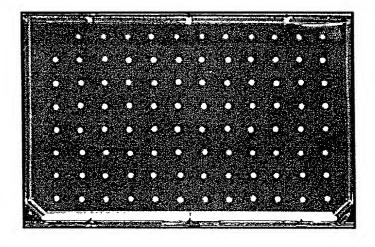


FIG. 6

$$R_1$$
 0 -Flour. $H_2\bar{0}$ R_1 0 -Flour —

FIG. 7

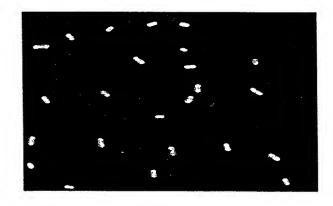


FIG. 8

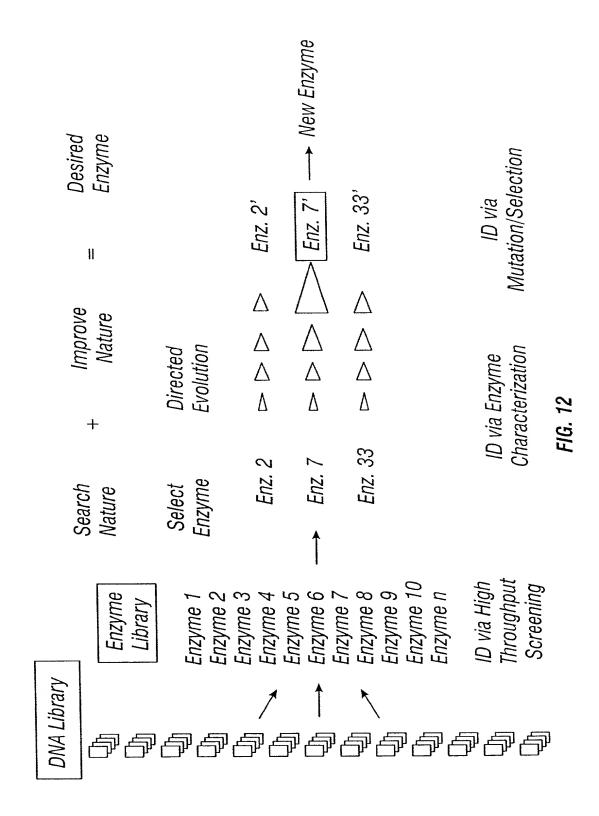
$$H_3C(H_2C) \xrightarrow{C} Q \qquad Q \qquad (CH_2)CH_3$$

$$Lauric anhydride \qquad H_3C(H_2C)_{10} \xrightarrow{C} WH$$

$$FIG. 9$$

$$H_2N \longrightarrow WH_2 + H_2N \longrightarrow WH_2 +$$

FIG. 11



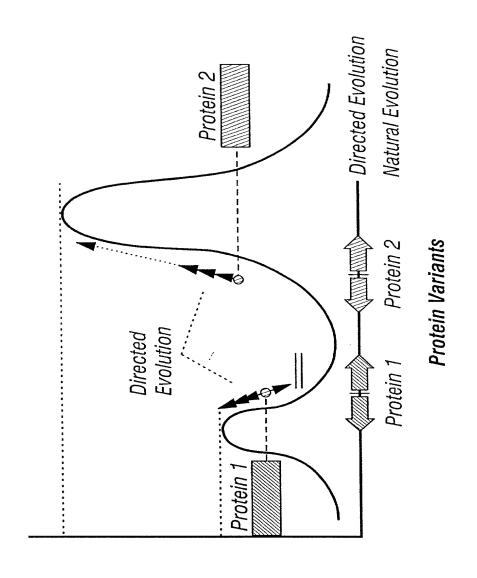


FIG. 13

Process Compatibility

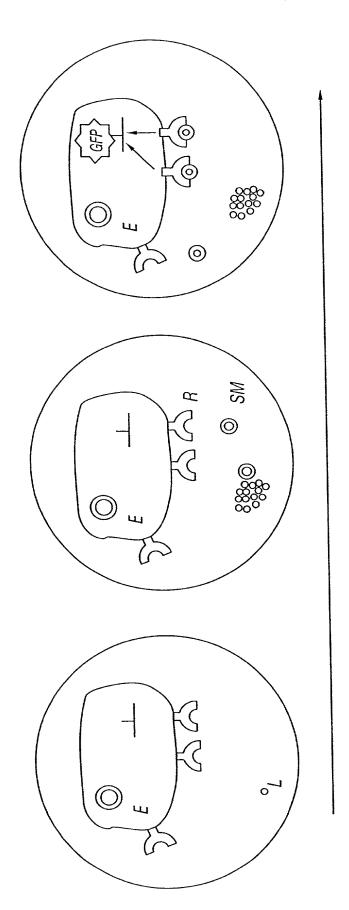
Buffer Compatibility

Expression Level

Stability
 Solvent Stability

Enzyme Activity

Relative



Receptor binding of small molecule & GFP reporting

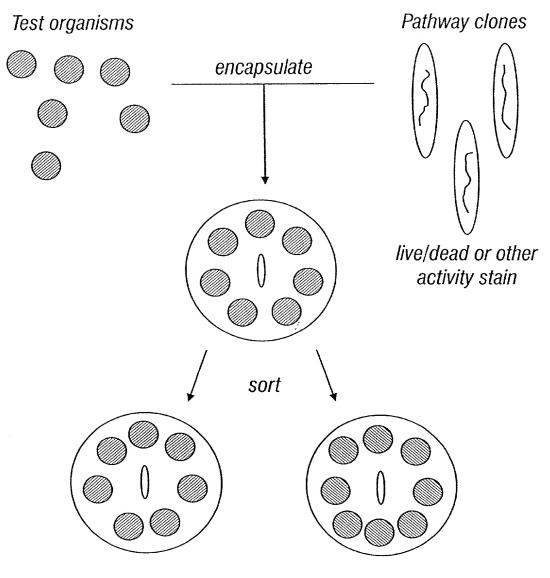
of small molecule from host

Co-encapsulation Library + Eukaryote

Growth and expression

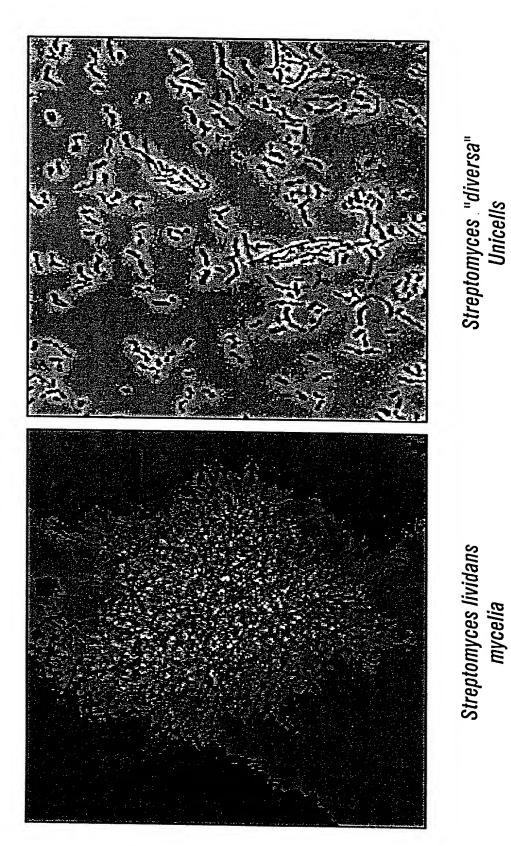
SM=Small molecule R=Eukaryotic receptor L=Large insert library GFP= Green fluorescent protein E=Eukaryotic assay organism

FIG. 14



bioactive expression (e.g. live/dead, groth rate, metabolic stains etc.)

FIG. 15



Streptomyces "diversa" Unicells

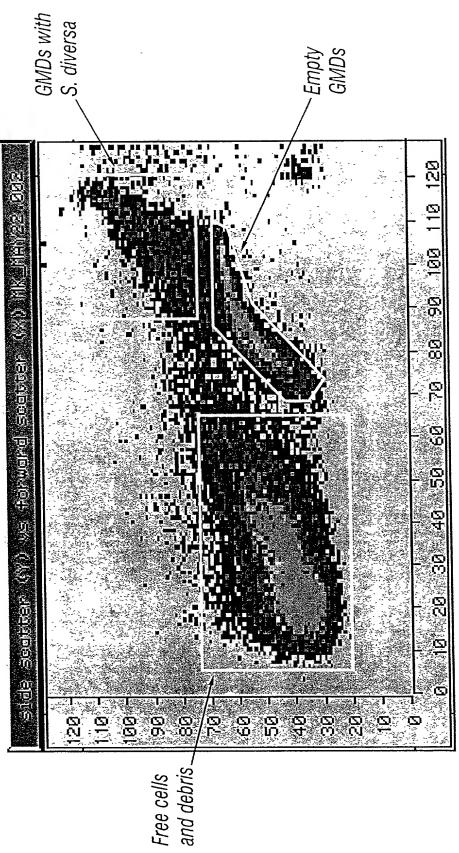


FIG. 17

